DATASHEET - M22-DL-X



Illuminated pushbutton actuator, flush, without button plate, momentary

Part no.M22-DL-XCatalog No.216933Alternate CatalogM22-DL-XQNo.EL-NummerKorway)4355641



Delivery program

Product range		RMQ-Titan
Basic function		Illuminated pushbutton actuators
Single unit/Complete unit		Single unit
Design		Flush
		momentary
Button plate		
button plate		Without button plate
Degree of Protection		IP66, IP67, IP69
Front ring		Bezel: titanium
Connection to SmartWire-DT		yes with SWD-RMQ connections
Actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1		
Minimum force for positive opening	N	0
Front dimensions		22 x 22

Technical data General

General			
Standards			IEC/EN 60947 VDE 0660
Lifespan, mechanical	Operations	x 10 ⁶	> 5
Operating frequency	Operations/h		≦ 3600
Actuating force		n	≦5
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Degree of Protection			IP66, IP67, IP69
Ambient temperature			
Open		°C	-25 - +70
Mounting position			As required
Mechanical shock resistance		g	30 Shock duration 11 ms Sinusoidal according to IEC 60068-2-27
shipping classification			DNV GL LR
			Contractions

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I _n	А	0
Heat dissipation per pole, current-dependent	P _{vid}	W	0

Equipment heat dissipation, current-dependent	P _{vid}	W	0
Static heat dissipation, non-current-dependent	P _{vs}	W	0
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	70
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects			Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation			Please enquire
10.2.5 Lifting			Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact			Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions			Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES			Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances			Meets the product standard's requirements.
10.5 Protection against electric shock			Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components			Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections			Is the panel builder's responsibility.
10.8 Connections for external conductors			Is the panel builder's responsibility.
10.9 Insulation properties			
10.9.2 Power-frequency electric strength			Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage			Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material			Is the panel builder's responsibility.
10.10 Temperature rise			Not applicable.
10.11 Short-circuit rating			Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 7.0

Low-voltage industrial components (EG000017) / Front element for push button (EC000221)

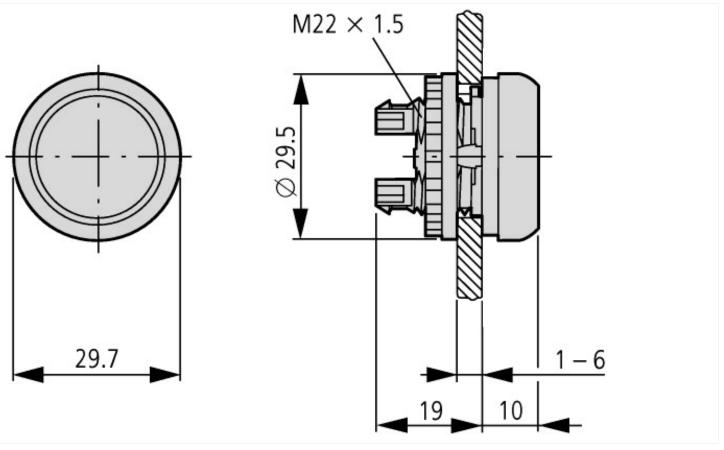
Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Front element for push-button actuators (ecl@ss10.0.1-27-37-12-10 [AKF028014])

Construction type lens Image: Roud Hole diameter 2 Witch opening Image: Roud Height opening Image: Roud Type of button Image: Roud Stable for illumination Image: Roud Witch protective cover Image: Roud Labeled Image: Roud Stricting function latching Image: Roud Syning-return Image: Roud With front ring Image: Roud Material front ring Image: Roud Soluri function (IPL, front side) Image: Roud Begree of protection (IPL, front side) Image: Roud Begree of protection (IPL, front side) Image: Roud			
Construction type lens Image: Roud Hole diameter 2 Witch opening Image: Roud Height opening Image: Roud Type of button Image: Roud Stable for illumination Image: Roud Witch protective cover Image: Roud Labeled Image: Roud Stricting function latching Image: Roud Syning-return Image: Roud With front ring Image: Roud Material front ring Image: Roud Soluri function (IPL, front side) Image: Roud Begree of protection (IPL, front side) Image: Roud Begree of protection (IPL, front side) Image: Roud	Colour button		Without button plate
Ander diameter Ander diameter Participation Paritipation Participation Partici	Number of command positions		1
Width openingmm0Height openingmm0Type of buttonmmFatSuitable for illuminationMmFatWith protective coverMmMmLabelledMmMmSvitching function latchingMmMoSpring-returnMmMmWith front ringMmMmAtterial front ringMmMmDegree of protection (IP), front sideMmMmMaterial front ringMmMmMaterial front ringMm<	Construction type lens		Round
Height openingmmOType of buttonFatFatSutable for illuminationFatFatWith protective coverFatFatLabelledFatNoSwitching function latchingFatFatSpring-returnFatFatMaterial front ringFatFatClour front ringFatFatSurg of protection (IP), front sideFatFatPareed of IP), front sideFatFatSurg of protection (IP), front sideFat	Hole diameter	mm	22
Type of buttonFileSuitable for illuminationImage: Sector of the sector of th	Width opening	mm	0
Suitable for illumination Ves With protective cover Image: Solar So	Height opening	mm	0
With protective coverNoLabelledNoSwitching function latchingImage: Section of the section of	Type of button		Flat
LabelledNoSwitching function latchingMoSpring-returnMoWith front ringMoMaterial front ringMoColour front ringMoDegree of protection (IP), front sideMoMaterial front ringMoMaterial front ringMaterial front ringMa	Suitable for illumination		Yes
Switching function latchingNoSpring-returnYesWith front ringYesMaterial front ringYesColour front ringYesDegree of protection (IP), front sideYesParticeParticeParticeParticePorticeParticeP	With protective cover		No
Spring-return Yes With front ring Yes Material front ring Yes Colour front ring Plastic Degree of protection (IP), front side Image: Spring -	Labelled		No
With front ring Yes Material front ring Material front ring Colour front ring Material for ting Degree of protection (IP), front side Material for ting	Switching function latching		No
Material front ring Plastic Colour front ring Chrome Degree of protection (IP), front side IP67/IP69K	Spring-return		Yes
Colour front ring Chrome Degree of protection (IP), front side IP67/IP69K	With front ring		Yes
Degree of protection (IP), front side	Material front ring		Plastic
	Colour front ring		Chrome
Degree of protection (NEMA), front side 4X	Degree of protection (IP), front side		IP67/IP69K
	Degree of protection (NEMA), front side		4X

Approvals

Product Standards	IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking
UL File No.	E29184
UL Category Control No.	NKCR
CSA File No.	012528
CSA Class No.	3211-03
North America Certification	UL listed, CSA certified
Degree of Protection	UL/CSA Type 3R, 4X, 12, 13

Dimensions



Assets (links)

Declaration of CE Conformity 00003256